

Exercise Week4

1. Fibonacci number

Fibonacci sequence follows these rules

- $F_0 = 0, F_1 = 1$
- $F_n = F_{n-1} + F_{n-2}$

Thus, the first 10 numbers (F_0 to F_9) in this sequence are

0, 1, 1, 2, 3, 5, 8, 13, 21, 34

Please use one while loop to output F_2 to F_{20} with following variables:

```
int Fn, n=2, Fn_1=1, Fn_2=0;
```

Expected output:

```
1 %%shell
2
3 g++ W4Solution.cpp -o W4Solution
4 ./W4Solution
```

```
→ F2=1
   F3=2
   F4=3
   F5=5
   F6=8
   F7=13
   F8=21
   F9=34
   F10=55
   F11=89
   F12=144
   F13=233
   F14=377
   F15=610
   F16=987
   F17=1597
   F18=2584
   F19=4181
   F20=6765
```

Please name your .ipynb file as YourID_Week4.ipynb and upload it to moodle system.
(ex. H3700001_Week4.ipynb)